

## **FLANGED INNER CONDUCTOR COAXIAL RESONATORS**

### **ABSTRACT OF THE DISCLOSURE**

5           A method and apparatus for making an inner conductor from a conductive body integrally forms a flange on one end of the conductive body. The flange is formed integral to the conductive body by flaring the end of the conductive body. The size and shape of the flange is selected to achieve a desired capacitance surface area for use in a resonator. A resonator housing that has a plurality of cavities can be provided with a  
10   plurality of conductive bodies that are inserted into holes located in a bottom wall of the resonator body and that protrude into the plurality of cavities. The resonator housing and conductive bodies are placed onto a flanging fixture to produce a flange on each conductive body of a desired size and shape to achieve a desired capacitance surface area. The plurality of conductive bodies can be simultaneously flanged and fastened to the base  
15   of the resonator housing.